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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/650,080 08/28/2003		Hajime Kimura	12732-162001/ US6582	7214	
26171 7:	590 06/05/2006		EXAMINER		
FISH & RICHARDSON P.C. P.O. BOX 1022			NGUYEN, KIMNHUNG T		
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER	
		2629			

DATE MAILED: 06/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No).	Applicant(s)				
Office Action Summary		10/650,080	10/650,080 KIMURA ET A					
		Examiner		Art Unit				
		Kimnhung Ngu	/en	2629				
	E of this communication app	pears on the cov	er sheet with the co	orrespondence a	dress			
Period for Reply								
WHICHEVER IS LONGE - Extensions of time may be availed after SIX (6) MONTHS from the lift NO period for reply is specified. - Failure to reply within the set or of the	TORY PERIOD FOR REPLER, FROM THE MAILING DIVIDITIES AND	OATE OF THIS C 136(a). In no event, how will apply and will expire, cause the application	COMMUNICATION wever, may a reply be time e SIX (6) MONTHS from to to become ABANDONED	l. ely filed the mailing date of this o) (35 U.S.C. § 133).				
Status					•			
1) Responsive to com	nmunication(s) filed on Ame	endment filed on	3/15/06.	•				
2a) ☐ This action is FINA		s action is non-fi						
<u>'=</u>	on is in condition for allowa			secution as to th	e merits is			
,	ce with the practice under E	•	-					
Disposition of Claims	·	•	·					
·	and 16-33 is/are pending in	n the annlication						
, , ,	Claim(s) <u>3-8,11-14 and 16-33</u> is/are pending in the application.							
·	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>13 and 14</u> is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	and 16-29 is/are rejected.							
7)⊠ Claim(s) <u>30-33</u> is/a	•							
· <u> </u>	e subjected to:	or election requir	ement					
, ,,	subject to restriction and/o	or election requir	sment.					
Application Papers								
•	objected to by the Examine			•				
10) The drawing(s) filed	l on is/are: a)□ acc	cepted or b)□ ol	ojected to by the E	xaminer.				
Applicant may not re	quest that any objection to the	drawing(s) be hel	d in abeyance. See	37 CFR 1.85(a).				
Replacement drawing	g sheet(s) including the correc	tion is required if t	he drawing(s) is obje	ected to. See 37 C	FR 1.121(d).			
11) ☐ The oath or declara	tion is objected to by the Ex	xaminer. Note th	e attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. § 1	19							
· · · · · · · · · · · · · · · · · · ·	made of a claim for foreign	n priority under 3	5 U.S.C. § 119(a)-	-(d) or (f).				
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Attachment(s)								
1) Notice of References Cited (F		4) 🗆	Interview Summary (
	nt Drawing Review (PTO-948) nent(s) (PTO-1449 or PTO/SB/08)	5) [Paper No(s)/Mail Date Notice of Informal Pa		O-152)			
Paper No(s)/Mail Date		6)	7	1	,			

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DETAILED ACTION

This Application has been examined. The claims 3-8, 11-14 and 16-33 are pending. The examination results are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 3, 5-6, 8, 11-12, 19, 22, 24, 26 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Stewart et al. (US 5,952,789).

Regarding claims 3, 6, Stewart et al. discloses in fig. 5, a current source circuit comprising: a first transistor and a second transistor (T1, T2); and a third transistor (T3, fig. 7), a capacitor element (C1) connected to the gate electrodes (S1) of the first transistor (T1) and the second transistor (T2); a power source line (see switching power line) connected to one end of the capacitor element (C1); a current source line (fig. 5) connected to the other end of the capacitor element (C1); and means for supplying electric charges held in the capacitor element (C1) as current to an object to be driven.

Regarding claims 22 and 26, Stewart et al. discloses in fig. 5 and 7, a current source circuit comprising: a first transistor (T1), a second transistor (T2), and a third transistor (T3, fig. 7) a power source line (see switching power line) connected to one end of the capacitor element (C1); a current source line (fig. 5) connected to the other end of the capacitor element (C1),

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wherein the capacitor element is connected to the power source line, while the first and second transistors are connected in series when a current is supplied to an element to be driven

Regarding claims 5, 8, 21, 24 and 28, Stewart et al. discloses the first and second transistors are an inherent of organic transistors (because they drive the circuit).

Regarding claim 11, Stewart et al. discloses in fig. 5, a method for driving a current source circuit having a first transistor (T1), a second transistor (T2), a capacitor element (C1, C2) connected to the gate electrodes of the first transistor and the second transistor and a current source line (fig. 5) and power source line (see switching power line) connected to the capacitor element (C1, C2), the method comprising the steps of: feeding current supplied from the power source line to the power source line through the first transistor and second transistor, which are connected in parallel; and feeding current from the power source line to an object to be driven through the first transistor and second transistor, which are connected in series.

Regarding claim 12, Stewart et al. discloses in fig. 5, a method for driving a current source circuit having a first transistor (T1), a second transistor (T2), a capacitor clement (C1, C2) connected to the gate electrodes of the first transistor and the second transistor and a current source line (fig. 5) and power source line (see switching power line) connected to the capacitor element, the method comprising the steps of: connecting the first transistor and second transistor in parallel when a setting operation is performed on the first transistor and second transistor; and

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connecting the first transistor and second transistor in series when current is supplied from the first transistor and second transistor to an object to be driven.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4,7, 20, 23, 25, 27 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al. (US 5,952,789) in view of Yamagishi et al. (US 6,501,466 cited by Applicant).

Stewart et al. does not disclose the first, the second and the third transistors are P-channel. Yamagishi et al. discloses in fig. 1, a current source system having the first, the second and the third transistors are P-channel type (see col. 11, lines 19-29).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using of the first, the second and the third transistors are P-channel as taught by Yamagishi et al. into the system of Stewart et al. because this would be selectively injected into the channel in order to shift the threshold voltage toward the enhancement side, which also less expensive to fabricate (see col. 11, lines 23-27).

Allowable Subject Matter

5. Claims 13-14 are allowed.

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6. Claims 30-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

None of the cited art teaches the method for driving a current source circuit comprising the steps of: supplying current based on the predetermined amount of voltage to the first transistor and second transistor, which are connected in parallel, such that the transistors can feed a predetermined amount of current; and supplying the predetermined amount of current to an object to be driven through the first transistor and second transistor, which are connected in series as claims 13-14; or dividing a unit frame period corresponding to an synchronizing timing of video signals input to the signal line into m sub frame periods, SF1,SF2... and SFm (where m is a natural number of two or larger) and providing at least one of the sub-frame period SF1, SF2... and SFm with an erasing time; and performing a setting operation n the current source circuit in the erasing time as claims 30-35.

Response To Arguments

8. Applicant's arguments filed on 3/15/06 have been fully considered but they are not persuasive.

Application states that Stewart does not teach a first transistor, a second transistor, and a capacitor element connected to the gate electrodes of the first transistor and the second transistor.

Examiner respective disagrees because Stewart discloses a first transistor, a second transistor, and a capacitor element connected to the gate electrodes of the first transistor and the

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second transistor (see fig. 5) and discussed above. For these reasons the rejections are maintained.

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen May 27, 2006

> RICHARØ HJERPE SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600